

OUTLOOK

A WEEKLY NEWSPAPER FOR FACULTY AND STAFF AT THE UNIVERSITY OF MARYLAND AT COLLEGE PARK

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State of the Campus: Fall 1992

Excerpts from remarks to the Campus Senate by President William E. Kirwan, Monday, September 14.

It has become a tradition for the president to give a state of the campus address at the first meeting of the Campus Senate. In preparation for today, I began drafting some remarks back in July.

I was going to talk about the fact that, despite the real and painful losses of furlough days and the 40 hour week decision as an institution I believe we have come through a very difficult period in impressive fashion. Think back to the trauma of last year and then think about some of our accomplishments:

- the completion of a remarkably collegial program review and reduction process, a process that I believe is unparalleled in higher education, a process that left our vision for the institution and our commitment to shared decision making intact;
- a record \$120 million in competitively funded contracts and grants won by our faculty;
- impressive numbers of the most distinguished awards to our faculty including Guggenheims, Sloans,

Rockefellers, and the nation's second largest number of Fulbright's;

- another three Presidential Young Investigator awards last year, bringing our campus total since the inception of the program to 30—among the highest totals of any university in the nation;

- recognition by *Black Issues in Higher Education* for having, among non-historically black institutions, the largest number of bachelor's degrees and the largest number of Ph.D. degrees awarded to African-Americans; and

- the receipt of the top two prizes in the National Mock Trial Competition to student teams from College Park, the first time in the long history of the competition that one school has accomplished this feat.

I could go on but by the standards of any university, this list alone is an

impressive set of accomplishments. Combine this list with the fact that our efforts to upgrade our facilities is bearing fruit. The College of Business and Management and the School of Public Affairs will soon move into new facilities; the renovation of Skinner is accomplished and the completion of work on McKeldin is less than six months away; Anne Arundel, our magnificent new Honors Hall, opened this fall; the Department of Animal Sciences has a new building;



President William E. Kirwan

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Public Discussions Set on Budget Cuts

Two open forums to provide the campus community with additional details about the current budget situation and the options being explored by the Ad Hoc Budget Advisory Committee have been scheduled.

The first will be held Tuesday, September 22 in Room 1240 of the Zoology / Psychology Building from 3:30 p.m. to 5:30 p.m. The second will be held on Wednesday, September 23 in Tawes Theatre from 3:00 p.m. to 5:00 p.m.

The forums have been scheduled as the university has been asked to respond to two different budget reduction scenarios for this fiscal year.

At the time this story was written, the first assumes that there will be no

further reduction (beyond the \$37 million already cut) in state support for local jurisdictions. Based on current discussion in Annapolis, this appears to be an unlikely scenario. In any case, this scenario calls for a \$63.6 million cut in the UM System budget and an \$18.5 million cut to the College Park budget. This campus represents about 40 percent of the System's state-supported budget.

The second scenario assumes an additional \$100 million cut to the local jurisdictions. Under this scenario, the cut to the UM System would be \$19.1 million and \$4.8 million to College Park.

All members of the campus community are urged to attend one of this week's open forums.

Open Forum on Privatization Set

John Stainback, one of the nation's leading authorities on privatization, has been engaged by the university to inform staff about privatization programs and to generate options that might be available to the campus as it confronts additional cuts in state funding support.

Stainback, who is president and CEO of the Houston-based Privatization for America, Inc., will conduct an open forum for members of the cam-

pus community interested in learning more about privatization Monday, September 28 from 3 p.m. to 5 p.m. in the Maryland Room of Marie Mount.

Stainback has developed programs for cities, counties, states and universities to generate non-tax revenues and cost savings. He will discuss the possibilities for use of nine different approaches to privatization within a university environment.

Exchange Applications for Beijing University Accepted

Applications are being accepted for the University of Maryland Exchange Program with Beijing University for the 1993-94 academic year. Applicants may be faculty or students with or without knowledge of Chinese language. For more details, call George Quenter, Department of Government and Politics, at 5-4146.

Distinguished Lecturer Series to Focus on the Environment

The environment is the focus of the Graduate School's 1992-93 Distinguished Lecturer Series which will feature the perspectives of an atmospheric scientist, a botanist, a historian and a poet.

On October 8, Susan Solomon of the Aeronomy Laboratory of the National Oceanic and Atmospheric Administration will discuss "Ozone Depletion: At the Ends of the Earth and Points In-Between." Her lecture will be held in the Zoology-Psychology Lecture Hall (Rm 1240) at 3:30 p.m.

Peter Raven of the Missouri Botanical Garden will speak on "Global Extinction: What is Our Responsibility?" on November 2, in Zoo-Psyc 1240 at 3:30 p.m.

University of Wisconsin history professor William Cronon will discuss "Telling Tales on Canvas: Landscapes of Frontier Change" on November 18 in the Art-Sociology Lecture Hall (Rm 2203) at 3:30 p.m.

On April 8, 1993, Pulitzer Prize-winning poet and environmentalist William Merwin will speak on "Poetry and the Living World" in Art-Soc 2203 at 3:30 p.m.

A concluding panel discussion, "Environment: Different Perspectives," will be held at a date, time and place to be announced.

A wine and cheese reception will follow each lecture.

University Wins \$205,000 Alcohol and Drug Prevention Grant

The university and the Division of Student Affairs have been awarded a two-year, \$205,000 Alcohol and Drug Prevention grant from the U.S. Department of Education and the Fund for the Improvement of Post-Secondary Education (FIPSE).

The grant will provide partial funding for a campus and community-wide campaign to coordinate current prevention efforts and develop new initiatives to combat the abuse of alcohol and other drugs.

Called "The Caring Coalition," the campaign will involve faculty, staff, students and members of the community. Vice President for Student Affairs William Thomas and Health Center Director Dr. Margaret Bridwell will serve as co-directors.

In addition to the Health Center, the grant will be used to support and coordinate a wide variety of prevention efforts by the Department of Resident Life, the Office of Student Activities, SEE Productions, the Counseling Center, Greek Life, the Stamp Student Union, Commuter Affairs, and Orientation. It will also provide initial funding to hire a prevention coordinator for the College Park campus.

For more information, contact Roger Segalla, coordinator of alcohol and other drug programs at 314-8126.

Ridky Named to National Science Education Committee



Robert W. Ridky

Robert W. Ridky, associate professor of geology, has been appointed by Frank Press, chair of the National Research Council (NRC), to serve on the National Committee for Science Education Standards.

Funded by major grants from the Department of Education and the National Science Foundation, the Standards Committee will work to develop a national consensus on what students, kindergarten through twelfth grade, should know and be able to do in science.

According to NRC, committee members were selected from a national pool of distinguished teachers and other educators, and from leaders in science and state and local governments.

For the past two decades Ridky has served on numerous national, regional and local committees and organizations focusing on improving science education in the United

States. He also has published and lectured widely on the subject.

The National Committee held organizational meetings in Washington, D.C. during the spring and engaged in an extensive six-week summer study at the National Research Council's Beckman facility in Irvine, Calif. After extensive study and continuing meetings, the committee plans to release its final report late next year.

According to Ridky, science curriculum standards are narrative descriptions of what students should understand and be able to do in science and applications?.

"These learning outcomes, what students should understand and be able to do," he says, "are the criteria by which curriculum, learning opportunities, and assessments can be judged. They will be used to guide the development of and/or to make qualitative judgments about curriculum."

Ridky says these standards are being developed in a manner that will encourage a variety of teaching and learning strategies. "It was a particular challenge for all members of our committee this summer to make sure that the mistake of equating knowledge with a sample list of facts was avoided in the development of curriculum standards," he says.

OUTLOOK

Outlook is the weekly faculty-staff newspaper serving the College Park campus community.

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Letters to the editor, story suggestions, campus information & calendar items are welcome. Please submit all material at least three weeks before the Monday of publication. Send it to Editor Outlook, 2101 Turner Building, through campus mail or to University of Maryland, College Park, MD 20742. Our telephone number is (301) 405-4621. Electronic mail address is outlook@pres.umd.edu. Fax number is (301) 314-9344.

UNIVERSITY OF MARYLAND AT COLLEGE PARK

1992 Outstanding Women to be Honored

The President's Commission on Women's Affairs and the Office of Academic Affairs will host an award presentation and reception to honor the Outstanding Woman Faculty Member and Outstanding Woman Administrator for 1992, and to greet new College Park women faculty and administrators. The event will be held Thursday, September 24 from 3:30 p.m. to 5:30 p.m. in Room 1400 Marie Mount Hall. Virginia W. Beauchamp, retired associate professor of English, and Mary E. Cothran, director of the Office of Multi-ethnic Student Education will be honored as outstanding campus women for 1992.

NEWS

State of the Campus: Fall 1992

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and we should begin work soon on the long awaited Plant Sciences Building.

Given all this, you can probably imagine that back in July I was warming to the prospect of today's meeting. Then came the "bombshells of August." They in no way erase the accomplishments of last year but, quite naturally, they have changed our mood from a sense of "recapturing our momentum" to "concern about our future."

Unfortunately, there is very little additional news that I can add today to what I have already shared with you in the letter I sent to the campus community a week ago and in the e-mail message I sent this past Thursday. We have been asked to respond to two budget scenarios. The first assumes no further reduction in state aid to local jurisdictions. It calls for a cut of some \$63 million to the University of Maryland System budget and approximately \$18.5 million to College Park's budget. The second scenario assumes that there is an additional \$100 million reduction to the local jurisdictions. It calls for a \$19.1 million cut to the System and \$4.8 million to College Park.

We can take heart in the fact that both the Governor and Secretary Aery seemed committed to protecting—to the extent possible—higher education and, within higher education, the College Park campus. Nevertheless, at this time, it is impossible to say where in the interval between \$4.8 million and \$18.5 million our final cut will fall. I do know that there is a near consensus in Annapolis that the local jurisdictions will have to share a greater part of the deficit burden. However, the situation is complicated by the fact that a significantly deeper cut to local jurisdictions will require either a special session of the General Assembly or a binding commitment by the leadership of the General Assembly that such cuts will be approved when the General Assembly convenes in regular session next January.

As you know, I have appointed an Ad Hoc Budget Advisory Committee, which I chair, to work with me in developing a response to whatever cuts we may face.

The committee has been hard at work and has been enormously helpful. We have established the following three principles which will guide any actions that may become necessary as a result of budget cuts:

- Allocate any reductions in funds in a manner consistent with campus priorities (the quality of our undergraduate and graduate education programs, our research programs, and our diversity initiatives).

- Allow individual units maximum flexibility in meeting any mandated reductions in funds.

- To the fullest extent possible, honor existing salary commitments to personnel.

According to Mahlon Straszheim, Chair of our Department of Economics, and other experts, the state's economy is unlikely to turn around this year. Thus, any cuts we receive in the current fiscal year, FY 1993, will probably become permanent reductions in FY 1994. As a result, the Ad Hoc Budget Advisory Committee is faced with the task of both recommending one-time cuts for this year and developing a plan for addressing these cuts in future base budgets either through increased revenues to offset the cuts or permanent reduction in some areas of expenditures. Our objective must be to get the cuts behind us and return to the business of improving the quality of the institution.

Until we have precise numbers, it is difficult to talk about specific strategies. However, we have discussed a range of options for FY 1993 that include a tuition surcharge, the creation of a Wintermester during the month of January, a selective tax on unit operating budgets, further reductions to the facilities renewal program, and a partial hiring freeze.

I want to emphasize that there is a strong desire by the committee to avoid—if at all possible—any significant negative impact on the educational programs, including course access, and the imposition of any furlough days. It would be difficult to realize both objectives, however, if we are faced with a cut in the range of \$18 million.

For FY 1994, we have discussed a permanent tuition increase, an aggressive early retirement program, ten-month contracts for certain future administrative appointments, consolidation of administrative units to eliminate administrative overhead and, if the cuts are in the upper range, additional selective elimination of academic programs with appropriate regard for process and shared governance.

This is not an upbeat message. But I believe it is important to keep the community as well informed as possible. This effort to inform and to

receive advice and comment will continue with two open forums that are scheduled for Tuesday, September 22 in room 1240 Zoo-Psyc from 3:30-5:30 p.m., and Wednesday, September 23 in Tawes Theatre from 3:00-5:00 p.m.

What are we to make of July's optimism turned sour early in the month of September? I can understand the feelings of discouragement and despair. Indeed, I have had them myself. This is not what any of us bargained for. But we must not succumb to these feelings. We have come too far, we have achieved too much to allow this latest round of adversity to defeat us. I ask you to keep in mind that real experts—like our own faculty members—tell us that once this anticipated cut is taken, the state's budget should stabilize and then start to grow modestly.

In this vein, I also ask you to keep in mind that what we are experiencing is also affecting many other universities. The news from California is of cuts even deeper than ours. Ohio State, Minnesota, Chapel Hill, Virginia and many other schools are also facing severe budgetary constraints, although admittedly most of the schools began their round of cuts with a larger base of funding than College Park. One further point. We must not lose sight of the fact that, as the apportionment of the projected cuts shows, College Park is becoming a real—not just a rhetorical—priority for the state.

As a campus we have demonstrated in the past, and we will again, that we can make decisions to sustain the quality of the institution even in hard times. Let us resolve to maintain our sense of community—for without community we can not fulfill our mission as a university; let us resolve to hold on to our aspirations for excellence—for without aspirations our institutional spirit will wane; and let us resolve to continue our belief that this university's best days are yet to come—for without such a belief our ambitions for College Park will die. If we do these things, I am convinced that by the end of this year, we will have recaptured our sense of institutional momentum, even if initially our pace of progress is not as rapid as we once thought it would be.

Pipette Inspection Clinic and Demonstration

Representatives from Rainin Instrument Company will provide free inspections of Pipetman and EDT pipettes on Thursday, September 24 between 10 a.m. and 4 p.m. in 2507 Chemistry. Inspections include testing of pipette sealing systems and physical checks of micrometer, shaft and plunger assemblies. Demonstrations of new ultramicro pipettes and free technical literature on the science of pipetting will be available. Call 5-5818 for info.

1992 Faculty Promotions

The following College Park faculty members have been promoted since July 1, 1992.

Agriculture

Professor
Jay S. Angle (AGRO)
Sukanta Dutta (VETM)
Marla S. McIntosh (AGRO)

Associate Professor
Scott M. Barao (ANSC)
Bruce R. James (AGRO)
Patrick C. Kangas (AGEN)
Howard D. Leathers (AREC)
Erik R. Lichtenberg (AREC)
Madis Pihlak (HORT)
Robert A. Scarfo (HORT)
Adel Shirmohammadi (AGEN)

Architecture

Professor
David P. Fogle

Arts and Humanities

Professor
Robert Coogan (ENGL)
Lindley Darden (PHIL)
Elke P. Frederiksen (GERM)
Donna B. Hamilton (ENGL)
Ronald Hoffman (HIST)
Stuart B. Kaufman (HIST)
Susan Lanser (ENGL)
Claire G. Moses (WMST)
Stephanie Pogue (ART)
Gabrielle M. Spiegel (HIST)
Mark Turner (ENGL)

Associate Professor
Joseph D. Falvo (FRIT)
Mitchell P. Hebert (THET)
Jason Kuo (ARTH)
Robertta S. Lavine (SPAN)
Maris D. Lekic (GERM)
Gina Marchetti (CMLT)
Sheri L. Parks (AMST)
Clark T. Saunders (MUSC)
Kenneth A. Taylor (PHIL)
Martha Nell Smith (ENGL)
Amy S. Weinberg (LING)

Business and Management

Professor
Anil Gupta
Kenneth G. Smith

Associate Professor
Dilip Madan

Behavioral and Social Sciences

Professor
Maureen Cropper (ECON)
Kurt Finsterbusch (SOCY)
Samuel N. Goward (GEOG)
David McDowall (CRIM)
Edward Montgomery (ECON)
Robert Schwab (ECON)
Mady W. Segal (SOCY)

Associate Professor
Paul J. Hanges (PSYC)
Paul S. Herrnson (GOVT)
David Lalman (GOVT)
Vladimir Tsimaneanu (GOVT)

Library and Information Services

Associate Professor
Mary Delia Neuman

Computer, Mathematical and Physical Sciences

Professor
Robert Gammon (IPST)
Harland M. Glaz (IPST)
Ann G. Wylie (GEOL)

Associate Professor
John Aloimonos (CMSC)
Der-Chen Chang (MATH)
Thomas Cohen (PHYS)
James Hendler (CMSC)
Abolhassan Jawahery (PHYS)
Jian-Shu Li (MATH)
James M. Purtillo (CMSC)
Timoleon Sellis (CMSC)

Education

Professor
Steven Graham (EDSP)
Steven Selden (EDPA)

Associate Professor
Anna Graeber (EDCI)
Joan Ann Lieber (EDSP)
Debra Neubert (EDSP)

Engineering

Professor
Evangelos Geraniotis (ENEE)
Mohammed Modarres (ENNU)

Associate Professor
David Bigio (ENME)
Roberto Celi (ENAE)
Gang-Len Chang (ENCE)

Wijesuriya Dayawansa (ENEE)
Michael Ohadi (ENME)
Ali Mosleh (ENNU)
Lourdes Salmanca-Riba (ENNU)
Anthony Vizzini (ENAE)

Health and Human Performance

Professor
Norman Epstein

Associate Professor
Catherine Ennis (KINE)
Stephen Thomas (HLTH)

Journalism

Associate Professor
Judith Paterson

Life Sciences

Professor
Haven Sze (BOTN)

Associate Professor
Margaret Palmer (ZOOL)
Rinaldo Poli (CHEM)
Gerald Wilkinson (ZOOL)

Public Affairs

Associate Professor
Steven Fetter

OUTLOOK has made every effort to include all new promotions. We regret any inadvertent omissions.

Music Department Acquires Baldwin Concert Grand Piano

The Music Department has acquired, on permanent loan from the Baldwin Piano Company, a Baldwin Concert Grand piano. The SD-10B 9-foot Concert Grand was used for the International Piano Festival and William Kapell Competition held this summer, and is now in the newly refurbished Tawes Recital Hall for use by recitalists and visiting artists.

ARTS

Djuna Barnes Centennial Conference Planned

In commemoration of the 100th anniversary of the birth of Djuna Barnes, the university will host the first conference devoted entirely to her life and works.

Barnes, one of the most unusual and compelling of the "expatriate" American modernists who flourished as writers and artists in the period between the two World Wars, is best known as the author of *Nightwood*, although her innovative fiction, poetry, theater, journalism and drawings have become increasingly significant to literary and cultural studies. College Park is home to the Djuna Barnes archives.

Hosted by the Comparative Literature Program and the Rare Books and

Literary Manuscripts Department of the McKeldin Library, the Djuna Barnes Centennial Conference will be held in the Stamp Student Union October 2-3. In addition to a rich spectrum of scholarly presentations, the centennial will feature an exhibit of art and artifacts, a dramatic performance, and opportunities to explore new directions in Barnes scholarship.

Participating in the centennial will be representatives from universities across the country, including the University of North Florida, West Chester University, Penn State, Notre Dame and Duke University. In addition to the Comparative Literature Program and Rare Books and Literary Manuscripts Department of the

McKeldin Library, the following are co-sponsoring the centennial: writer and photographer Hank O'Neal; University of Delaware Department of English; New York University Press; Department of English, UMCP; Parents Association Art Gallery, UMCP; Theatre Department, UMCP; and Women's Studies Program, UMCP. The conference is supported by a grant from the College of Arts and Humanities.



Djuna Barnes

Cossa and Wilson Open Artist Scholarship Series

The Music Department's Artist Scholarship Benefit Series begins September 25th with "An Evening of Arias and Duets for Baritone and Tenor," featuring faculty member Dominic Cossa, Gran Wilson and the University of Maryland Symphony Orchestra, William Hudson, conductor.

Described by *The New Yorker Magazine* as having "one of the most beautiful baritone voices you are likely to

come across anywhere," Cossa has sung in more than twenty new productions and has appeared as leading baritone with the Metropolitan Opera, the San Francisco Opera, and the Opera Companies of Montreal, Houston, Vancouver, Miami and Washington, D.C.

Gran Wilson, who was seen on national television on "Live from Lincoln Center" in *Anna Bolena*, has performed leading tenor roles with such

companies as the New York City Opera, Opera de Nice, The Australian Opera, the Seattle Opera and the Miami Opera.

The event will be held at 8 p.m. on September 25th in Tawes Recital Hall. General admission tickets are \$15; students and senior citizen tickets are \$9.

Subscription tickets also are available. For more information, call 5-5548.

Concert Society Opens 17th Season with 1492 Commemoration

Two musical worlds brought together by Columbus' voyage are recreated during the opening of the Concert Society at Maryland's 1992-1993 season. On Saturday, October 3, at 8 p.m., Bolivia's premier folk ensemble, Grupo Aymara, performs music from one of the great cultures encountered by the Spanish in the New World: the Incas, whose present day descendants are the Aymara and Quechua peoples of the high Andes. And on Sunday, October 11, at 7:30 p.m., the outstanding Spanish ensemble, Taller Ziryab, makes its American debut.

Grupo Aymara, which opens the Concert Society's WorldSong Series, features indigenous Andean music for flutes, panpipes and drums, along with traditional mestizo music blending European and Andean instruments and styles. Taller Ziryab, which opens the Olde Musicke Series, specializes in 15th- and 16th-century music from their home of Seville, the Renaissance cultural and religious center that provided most of the

musicians, instruments and printed music for Spain's New World colonies.

Free pre-concert discussions, funded by a major grant from the National Endowment for the Humanities and the Maryland Humanities Council, will take place before these performances, which will be held in the Conference Center auditorium. For ticket information, call 403-4240.

The Concert Society at Maryland will celebrate its 17th season with more than 20 performances in three series: the WorldSong Series, devoting a second consecutive season to traditional and contemporary music and dance by outstanding American Indian artists; the Olde Musicke Series, featuring the best of period-instrument specialists performing music from the Middle Ages to the 19th century; and the extensive Chamber Music Series, featuring world class recitalists and chamber groups performing standard repertoire and new music by four Pulitzer Prize-winning composers.



Grupo Aymara

MIPS Application Deadline October 23

Applications for the second round of the 1992-93 Maryland Industrial Partnerships (MIPS) matching grants is October 23. An arm of the university's Engineering Research Center, MIPS provides matching funds for industry-university research partnerships. Matching grants are awarded on a competitive basis for projects based on proposals submitted jointly by Maryland companies and university researchers. For details call 5-3891.

College Park Astronomers Detect Energetic Electrons in Weak Solar Flares

The detection of very energetic electrons in weak solar flares was reported for the first time by four College Park astronomers during a recent meeting of the American Astronomical Society in Columbus, Ohio.



Mukul Kundu

Scientists have long been aware of the high energy levels that are reached in the powerful flares that leap from the sun's surface, but until the College Park study, they were unsure of the level of energy in smaller, seemingly less potent flares. Using the Berkeley-Illinois-Maryland Millimeter Array (BIMA), a highly sensitive radio telescope that is partly owned by this university, the College Park scientists were able to gather extensive data on the high energy levels reached during weaker solar flares.

The paper on the subject was presented by Mukul Kundu, professor of astronomy, and Department of Astronomy co-authors Stephen White, N. Gopalswamy and Jeremy Lim.

Since 1942 when solar radio astronomy started, the technique of radio astronomy has contributed to the understanding of energy release pro-

cesses in the sun during flare explosions. Understanding the radio data is crucial to understanding the energetic flare process. This is because radio emission is produced by energetic electrons as they move along the magnetic fields which permeate the sun's corona.

Until recently, the sun could not be studied at millimeter wavelengths with the spatial resolution and sensitivity required to observe "typical" solar flares. Recent developments in the field of interferometry at millimeter wavelengths now make this possible. Millimeter wave emission in solar flares is produced by very energetic (MeV) electrons interacting with strong magnetic fields. These are the same MeV-energy electrons which generate gamma rays by interacting with dense matter. At the present time there is no proven technique for directly imaging gamma rays, but millimeter-wavelength imaging can act as a substitute for gamma ray imaging.

Kundu and his colleagues have used the radio telescope to study millimeter emissions from solar flares. "It appears that MeV-energy electrons are much more abundant than previously believed—and they can be produced in both large and small flares," he says.

Other findings from the observa-

tions include:

- In addition to the impulsive non-thermal emission due to energetic electrons interacting with magnetic fields, there also exists a gradual-extended emission with slow rise and decay times—thermal emission resulting from the heated flare material;

- The millimeter emissions do not necessarily show a strong correlation with the less energetic electrons (10–50 keV) which radiate the hard X-rays. This implies that one must consider different mechanisms for accelerating the two energetic populations;

- Millimeter emission usually occurs at the steep rise phase of the hard X-ray emitting electrons (25–100 keV);

- There appears to exist some delay between mm-emission onset and 25–100 keV X-ray data. These results have implications in the particle acceleration process.

Within the next year, using the BIMA imaging telescope, the scientists expect to be able to directly measure the location and size of the regions containing MeV-energy electrons in solar flares. "These and other findings will help scientists better understand the dynamics of solar flares," Kundu says.

New Grant Awarded To Study Diseased Chesapeake Bay Oyster

Ironically, the one animal that could most help save the ecologically-embattled Chesapeake Bay is itself under attack. Chesapeake Bay oysters, long prized for their succulent flavor and now also prized for their ability to filter water, are being killed off by a disease called dermo.

But a new National Oceanic and Atmospheric Administration grant of \$309,000 to College Park and the University of Maryland System's Center for Environmental and Estuarine Studies (CEES) to study dermo might offer hope not only for oysters in the bay but for the bay itself.

This is because as the bay has become saturated with excess nutrients washed from surrounding land, algae and other plant life thrive, feeding on the abundant nutrients. But as the plant life increases, it consumes much of the oxygen in the water, depriving bay animals, such as fish, of the oxygen they need to survive. Oysters, however, feed on the overabundant algae in the bay.

And, acting as small vacuum cleaners, they take in water, filter out the alga for food, and expel the resulting

filtered water back into the bay.

Unfortunately, however, the number of oysters in the bay is declining sharply. One major reason is dermo. This disease infects many oysters, stunting their growth and causing them eventually to die. While much is known about the organism that causes the disease, much less is known about why and how it causes damage to oysters.

"Although the disease has existed in the bay for 30 to 40 years, there have been very few, if any, studies done on the physiological effects of the disease on the oyster," notes Ken Paynter, assistant research scientist with the Department of Zoology.

Unraveling the mystery of exactly how the disease harms the oyster is crucial to understanding how to save the bay oysters—and perhaps, the bay itself. Accordingly, Paynter and his collaborators from CEES, the University of Maryland at Baltimore County, and the Virginia Institute of Marine Science, will focus on four aspects of the disease: its effects on oyster immunology; how it influences the oysters' ability to deal with

changes in the salinity of the bay; how the disease impacts the oysters' feeding habits; and how certain biochemicals produced in oysters during stress, called "stress proteins," respond during infection.

"No one really understands the mechanisms of the morbidity and mortality of the disease in oysters," Paynter points out. "We know their growth is greatly reduced after they become infected and that the disease progresses quite rapidly, but we don't know why. There is something going on physiologically within the infected animals that we just don't understand."

If researchers could find a way to ensure the health of the oysters, this might increase their numbers in the bay. "If we can begin to learn how to grow oysters and keep them healthy, they could not only play a big part in the economy of the state but also the ecology of the bay. Oysters would use up the extra algae and excess algae from the bay and then you could sell the oysters to consumers as food."

—Gary M. Stephenson

Speakers and Workshops on Information Field

The College of Library and Information Services Alumni Day on September 25 will focus on the information technology explosion that is changing the future of libraries. S. Michael Malinconico will discuss the role of librarians as information consultants/engineers. Lucia St. Clair-Robson, author of *Walk in My Soul*, will discuss how the skills of the librarian are a valuable resource to writers in gathering information. A workshop and demonstration will acquaint participants with new technology in the information field. Call Vicky Reinke at 5-2038 for info.

F.Y.I.

Kudos to...

From time to time, OUTLOOK runs this section calling attention to the accomplishments, awards and other achievements of College Park faculty, staff and students. Kudos to...is compiled from memos, letters, phone calls, and departmental newsletters. We'd like to hear from you. Send information to OUTLOOK, attn: Kudos, 2nd Floor, Turner Building.

David Lalman, government and politics, for co-authoring the new book *War and Reason: Domestic and International Imperatives*, published in 1992 by Yale University Press. Lalman and University of Rochester political scientist Bruce Bueno de Mesquita, two leading theorists of international relations, analyze the strategies designed to avoid international conflict and assess two competing theories on the role domestic politics play in foreign policy choices.

Laveen Kanal, computer science, for winning the 1992 King-Sun Fu Award, which is the highest honor given by the International Association for Pattern Recognition. IAPR cited Kanal for his "fundamental contributions to Markov random field models, heuristic search strategies, hybrid linguistic-statistical models and reasoning in uncertain domains."

William Rivera, agricultural and extension education, for winning the Lang Rosen Award of the Society of Technology Transfer, for best 1991 publication in the *Journal of Technology Transfer*. Rivera's book, *Agricultural Extension: Worldwide Institutional Evolution and Forces for Change*, was published in 1991 by Elsevier Science Publishers, Amsterdam.

Charles O. Heller, Dingman Center for Entrepreneurship, for winning the Supporter of Entrepreneurship Award at the 1992 Maryland Entrepreneur of the Year awards banquet. Heller, who initiated many successful programs at the Dingman Center aimed at helping new and emerging-growth business of the region, is now a finalist in a National Competition to be decided in November at the national conference of the Institute of American Entrepreneurs.

Lawrence Moss, music, for winning a 1992-93 American Society of Composers, Authors and Publishers award. The award is based upon the unique prestige of the winner's original compositions and recent performances.

Larry Warren, dance, for winning one of two de la Torre Bueno Prizes for his 1991 book, *Anna Sokolow: The Rebellious Spirit*. The award, presented annually by the Dance Perspectives Foundation in New York, recognizes excellence in new dance literature.

Betty Beckley, Letters and Sciences, who was honored as an Outstanding Advisor/Mentor by the

Maryland Association for Higher Education.

Katherine Pedro Beardsley, Behavioral and Social Sciences, for winning the award for Outstanding Chapter Advisor of Alpha Lambda Delta Honor Society.

David K. Donaldson and Bill Schillig, engineering and architectural services, for designing, in accordance with the Americans with Disabilities Act, the Guardian Paver, a paving product that will help make the presence and location of areas such as crosswalks, curb cuts, ramps and entrances easier to detect.

Shuttle-UM, for winning the 1992 top-honor Silver Award for Bus Safety from the American Public Transit Association. The award recognizes superior safety records and demonstrated excellence in their safety programs during the preceding year.

Richard B. Frank, Technology Advancement Program, for speaking before the Sixth National Conference on Business Incubation in May in Austin, Texas. More than 425 managers and developers of business incubators, from the U.S. and other countries, attended the conference.

James Grunig, journalism, for delivering the July commencement address for the first

public relations graduating class at the University of Utrecht in the Netherlands. Vol. I of the book *Excellence in Public Relations and Communication Management*, the result of an International Association of Business Communicators project headed by Grunig, was published in May.

Karol Soltan, Julia Stronks, and Sara Wayland, government and politics, for receiving 1992-1993 Fulbright Awards. They will be studying in Poland, the Netherlands, and France, respectively.

Charles Butterworth, government and politics, for receiving a Spring 1993 fellowship at the Woodrow Wilson Center at the Smithsonian Institution.

John Audley, government and politics, who received a \$25,000 Merck Foundation grant for dissertation research.



Charles Butterworth

Bernhard Leeb, mathematics, for receiving an Alfred P. Sloan Doctoral Dissertation Fellowship. The fellowship winners are nominated by leading economics and mathematics departments and selected by a committee of distinguished economists and mathematicians.

Wendell T. Hill, IPST, who has been granted a visiting fellowship for 1992-93 by the Joint Institute for Laboratory Astrophysics of the National Institute of Standards and Technology and the University of Colorado. The fellowship allows scientists to pursue advanced research in their fields while residing at the Institute, which is at the Boulder campus.

William L. Magette, agricultural engineering, who has been selected for a Fulbright Fellowship beginning in September 1992, when he will begin a year in Ireland studying research and education programs related to water quality and environmental protection.

Lauri Grunig, journalism, for being named program chair of the 1993 conference of the Association for the Advancement of Policy, Research and Development in the Third World, to be held in Cairo.

Victoria Rymer, accounting, for her appointment by Maryland Governor Schaefer to a three-year term on the Maryland State Board of Public Accountancy. The seven-member board regulates nearly all aspects of the accounting profession in the state.

Lee E. Preston, College of Business and Management, for being named by U.S. Department of Commerce Secretary Barbara Franklin to Maryland/Washington D.C. District Export Council (DEC). Preston's appointment is intended to provide the DEC program, which stimulates export activities by U.S. firms, with access to University of Maryland resources and expertise.

Clara Hill, psychology, for her appointment as editor of the *Journal of Counseling Psychology*.

Lois Kay, journalism, for being designated an honorary alumna, with distinction, by the dean and faculty of



Lee E. Preston

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CALENDAR

Sept 21 – 30

21 MONDAY

Art Exhibition, Selections from the Photography Collections, Albin O. Kuhn Library, University of Maryland, Baltimore County. Exhibition runs through Oct. 25 at the Art Gallery. Call 5-2763 for info.

Campus Recreation Services, aerobics begin today. Call 4-7218 for info.

Art Center Class, Black & White Darkroom Crash Course, 12-3 p.m., Art Center, Stamp Student Union. Fee is \$45. Call 4-2787 for info.*

Systems Research Seminar: "Stabilization of Interconnected Systems: Some Results and Open Problems," Andrea Bacciotti, Politecnico di Torino, Italy, 2 p.m., 2168 A.V. Williams. Call 5-6634 for info.

Maryland Industrial Partnerships Faculty Briefing, Discussion of research project with Great Games Products, Dana Nau, 2-3 p.m., 1112 A.V. Williams. Call 5-3891 for info.

Entomology Colloquium: "Identification of Novel Peptides from the Accessory Glands of Female House Flies and Stable Flies," Renee Wagner, USDA, 4 p.m., 0200 Symons. Call 5-7947 for info.

22 TUESDAY

Career Fair, recruiters from national organizations and government agencies, 10 a.m.-noon and 1-3 p.m., Grand Ballroom, Stamp Student Union. Registration required. Call 4-7228 for info.

Coastal and Environmental Policy Program Speaker: "Is Sustainable Development an Oxymoron?" Herman Daly, noon-1:15 p.m., 1137 Stamp Student Union. Bring a bag lunch. Call 5-6383 for info.

Art Center Class, Lunchtime Photo Workshops, today thru Nov. 10, Tuesdays, 12-1:30 p.m., Art Center, Stamp Student Union. Fee is \$20 each

or \$100 for all eight sessions. Call 4-2787 for info.

Ecology and Evolutionary Biology Seminar: "Sexuality in Relation to Bacterial Populations and Species," Conrad Istock, Univ. of Arizona, noon, 1208 Zoo/Phys. Call 5-6887 for info.

CIDCM Brown Bag Lunch Seminar: "The Nature of the Economic Development Problem," Jerome Segal, Institute for Public Policy, 12:30-1:30 p.m., 2136 Mill Bldg. Call 4-7703 for info.

Center for Teaching Excellence Core Faculty Workshop, New Faculty Workshop, 3-5 p.m., Maryland Room, Marie Mount Hall. For new faculty and graduate assistants. Call 5-3154 for info.

The Year of Data Lecture Series: "Remote Sensing: Instruments and Data Streams," Thomas Wilkerson, IPST; Claire Parkinson, NASA; Willard Fraize, MITRE Corp., 4:15-6 p.m., 1407 Chemistry. Call 5-5691 for info.

23 WEDNESDAY

First Look Fair, information on clubs, organizations and College Park offerings, 10 a.m.-4 p.m., McKeldin Mall. Call 4-7174 for info.

Molecular and Cell Biology Seminar: "Signal Transduction and Gene Expression During Development in Bacillus Subtilis," Alan Grossman, MIT, 12:05 p.m., 1208 Zoo/Phys. Call 4-9921 for info.

UMIACS Seminar on Algorithms: "Information Dispersal and Fault-Tolerant Parallel Communication," Yu-dah Lyuu, NEC, 2 p.m., 1112 A.V. Williams. Call 5-6761 for info.

Faculty Meeting for any discipline interested in discussing a lesbian/gay studies program, 2-3:30 p.m., 3109 South Campus Surge Bldg. Call 5-3833 for info.

Astronomy Colloquium: "Self-Criticality in Solar Flares," Marcus Aschwanden,

Astronomy, 4 p.m., 1113 Computer/Space Sciences. Call 5-3001 for info.

Writers Here and Now, Paul Auster, 7:30 p.m., University Book Center. Call 5-3819 for info.

24 THURSDAY

Art Center Class, Black & White Darkroom Crash Course, 10-1 p.m., Art Center, Stamp Student Union. Fee is \$45. Call 4-2787 for info.*

First Look Fair, information on clubs, organizations and College Park offerings, 10 a.m.-2 p.m., McKeldin Mall. Call 4-7174 for info.

Pipetman Inspection Clinic, inspections, physical equipment checks and demonstrations of new pipettes, 10 a.m.-4 p.m., 2507 Chemistry. Call 5-5818 for info.

Open House, demonstration of gravity gradiometer, refreshments served, 1-4 p.m., room SB0333 Physics, beneath the Center for Superconductivity Research. Faculty, staff and students welcome. Call 5-6093 for info.

Meteorology Seminar: "Global Populations and Characteristics of Mesoscale Convective Complexes," Michael Fritsch, Penn State, 3:30 p.m., 2114 Computer/Space Sciences. Coffee and cookies served at 3 p.m. Call 5-5392 for info.

Presentation and Reception, sponsored by the President's Commission on Women's Affairs and the Office of Academic Affairs, to honor Virginia Beauchamp and Mary Cothran, 3:30-5:30 p.m., 1400 Marie Mount Hall. Call 5-1488 for info.

The Year of Data Lecture Series: "Remote Sensing: Data for Global Change," Ralph Dubayah, Geography, 4:15-6 p.m., 1407 Chemistry. Call 5-5691 for info.
Open Rehearsal, Guarneri String Quartet, 5 p.m., Tawes Recital Hall. Call 5-5548 for info.

25 FRIDAY

Speech Communication Colloquium: "Finding the Text: Historiographical and Textual Issues in Elizabeth Gurley Flynn's 'The Truth About the Patterson Strike,'" Mary Anne Trasciatti, Speech Communication, noon, 0104 Skinner. Call 5-6524 for info.

Published Women Luncheon, co-sponsored by AAUW and University Club, Eugenia Zerbino, Journalism, noon-1 p.m., Carriage House, Rossborough Inn. Admission is \$10. Call 4-8013 for reservations and info.*

Mental Health Lunch 'n' Learn Seminar: "Neuropsychological Testing in Patients with Mild Head Injury," Anne Newman, National Rehabilitation Hospital, 1-2 p.m., 3100E Health Center. Call 4-8106 for info.

Agricultural and Resource Economics Seminar: "Optimal Saving Policy for Exhaustible Resource-Based Economics," Y. Hossein Farzin, Georgetown University, 2-4 p.m., 2200 Symons. Call 5-1293 for info.

Art Center Class, Black & White Darkroom Crash Course, 3-6 p.m., Art Center, Stamp Student Union. Fee is \$45. Call 4-2787 for info.*

Artist Scholarship Benefit Series Concert: "An Evening of Arias and Duets," 8 p.m., Tawes Recital Hall. Admission is \$15 standard and \$9 students and seniors. Call 5-5548 for info.*

28 MONDAY

Art Exhibition, Selections from the Photography Collections, Albin O. Kuhn Library, University of Maryland, Baltimore County. Exhibition runs through Oct. 25 at the Art Gallery. Call 5-2763 for info.

Art Center Class, Black & White Darkroom Crash Course, 12-3 p.m., Art Center, Stamp Student Union. Fee is \$45. Call 4-2787 for info.*

Entomology Colloquium: "Sources, Transport and Fate of Pesticides in the Air," James Seiber, University of Nevada, 4 p.m., 0200 Symons. Call 5-7947 for info.

29 TUESDAY

Blood Drive, sponsored by the Veterans Club, 8 a.m., Tortuga Room, Stamp Student Union. Call 4-8495 for info.

Ecology and Evolutionary Biology Seminar: "El Nino, Coral Mortality, Damselfish and Sea Urchins: How Climate Can Influence Coral Reef Frameworks," Mark Eakin, NOAA, noon, 1208 Zoo/Phys. Call 5-6887 for info.

The Year of Data Lecture Series: "Visualization of Statistical Data," Dan Carr, George Mason University, 4:15-6 p.m., 1407 Chemistry. Call 5-5691 for info.

Dingman Center for Entrepreneurship Seminar: "Valuation of Privately-Held Companies," 6-9 p.m., Entrepreneur's Roundtable, UMBC. Call (410) 455-2336 for info.

Health Center Symposium: "Panic, Anxiety and Stress," Thomas Uhde, NIMH, 7 p.m., Prince George's Room, Stamp Student Union. Call 4-8106 for info.

30 WEDNESDAY

Counseling Center Research and Development Meeting: "Trends and Issues for UMCP's Student Union," James Osteen, Stamp Student Union, noon-1 p.m., 0106 Shoemaker. Call 4-7691 for info.

Astronomy Colloquium: "Quasars, Blazars, and Gamma Rays," Charles Dermer, Rice University, 4 p.m., 1113 Computer/Space Sciences. Call 5-3001 for info.

*Admission charged for this event. All others are free.

More Kudos. . .

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the College of Journalism. She is recognized for her efforts to boost the careers and spirits of journalism students, and her years of service to the college.

Rita R. Colwell, Maryland Biotechnology Institute, for being receiving an honorary life membership to the Bangladesh Society of Microbiologists of the University of Dhaka, in recognition of her contributions in the microbiology field and her dedication to training Bangladeshi microbiologists.



Rita R. Colwell

Ramalingam Chellappa, electrical engineering, who was elected a Fellow of the Institute of Electrical and Electronics Engineers.

UMCP's Golden Key Chapter for winning for the second year in a row the Best Newsletter Award of the Golden Key National Honor Society. The award recognizes the chapter that best exemplifies professionalism, effectiveness and creativity in newsletter correspondence to its chapter members.

Stanley Dambroski, intensive educational development program, who presented a paper at the 28th international congress of the World Phenomenology Institute in Messina, Greece.



Bill Hartman

Bill Hartline, procurement and supply, for being named both Professional Purchasing Manager of the Year by the Maryland Public Purchasing Association and Professional Purchasing Manager of the Year by the National Institute of Governmental Purchasing.

